TAMRON®

World's Smallest, World's Lightest*

*As of March 1, 2002. Based upon Tamron research of lenses in the same class.

NEW

AF28-300mm Ultra Zoom XR

F/3.5-6.3 LD Aspherical (IF) MACRO

Model A06

For Canon AF, Minolta AF-D, Nikon AF-D & Pentax AF Cameras.

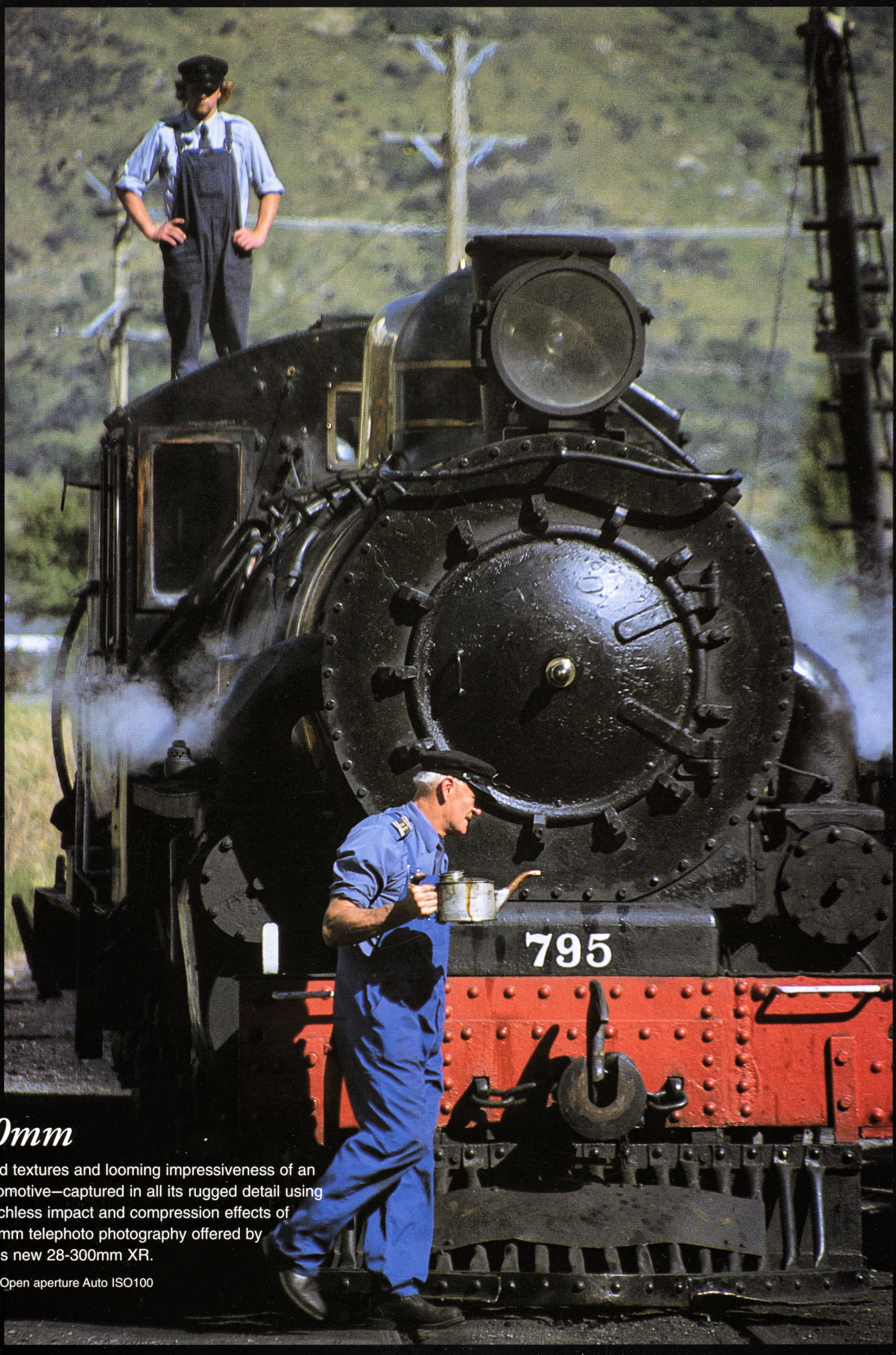
EUROPEAN IMAGING AND SOUND ASSOCIATION
EISA
AWARDS
LENS 2002-2003
Tamron 28-300/3,5-6,3 XR

f=300mm F/16 Auto ISO100

Model A06

All The Lens You Need.

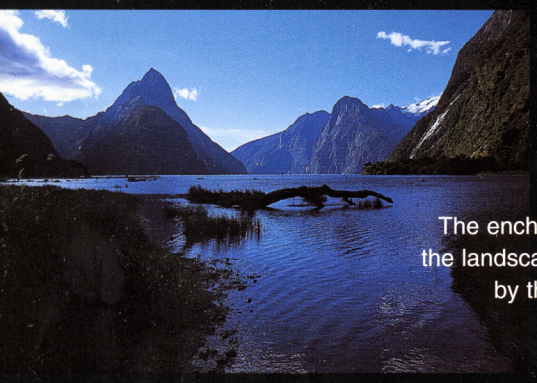
GB



300mm

The vivid textures and looming impressiveness of an iron locomotive—captured in all its rugged detail using the matchless impact and compression effects of the 300mm telephoto photography offered by Tamron's new 28-300mm XR.

f=300mm Open aperture Auto ISO100



28mm

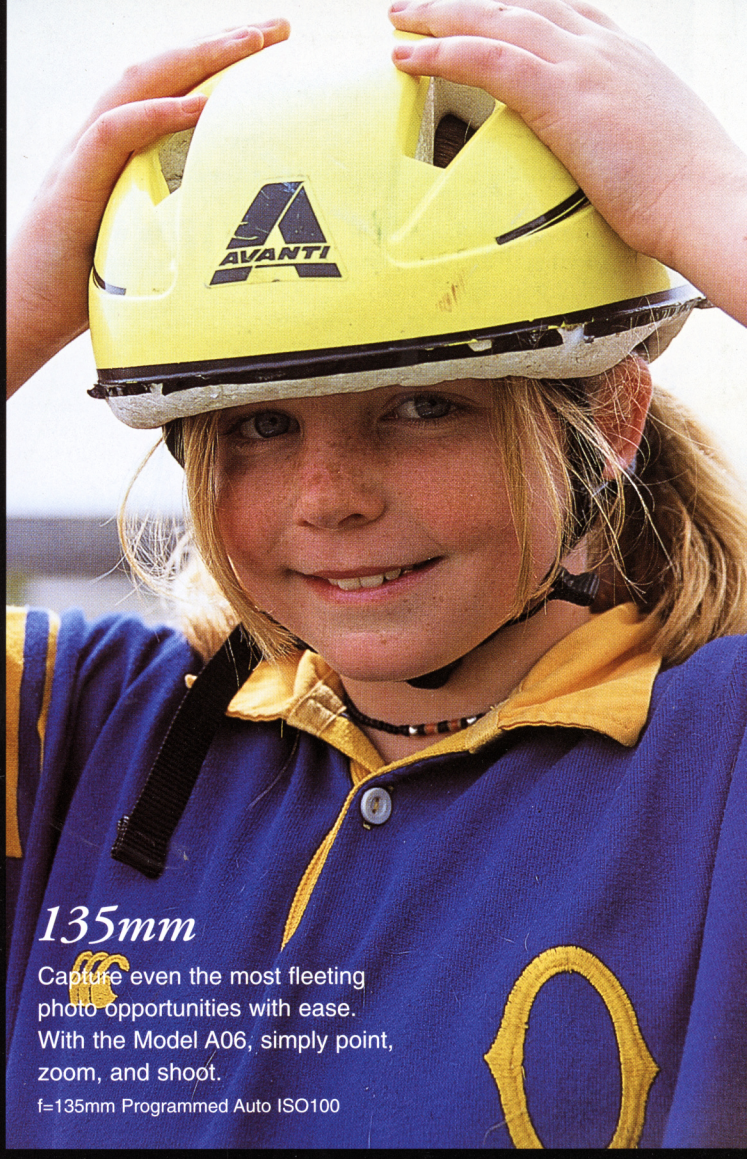
Misty peaks rise up from a still mountain lake. The enchantment and vastness of the landscape is fully encompassed by the true wideangle setting of this versatile lens.
f=28mm F/16 Auto ISO100

28mm

With the Model A06, consistent close-in work is simple, even in wideangle setting.
f=28mm F/16 Auto ISO100

300mm

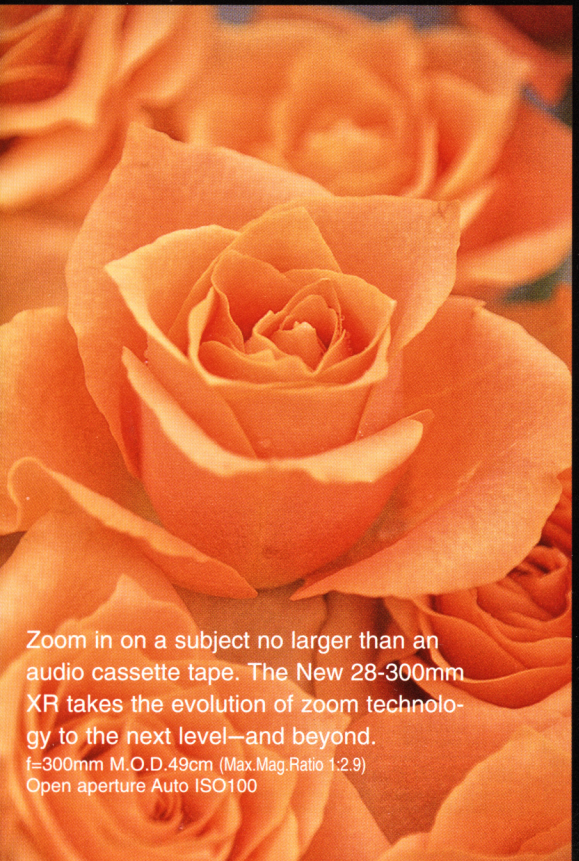
Some subjects don't take kindly to strangers.
In this type of situation, instant access to telephoto features provides the ideal solution.
f=300mm Open aperture Auto ISO100



135mm

Capture even the most fleeting photo opportunities with ease. With the Model A06, simply point, zoom, and shoot.
f=135mm Programmed Auto ISO100

Close up



Zoom in on a subject no larger than an audio cassette tape. The New 28-300mm XR takes the evolution of zoom technology to the next level—and beyond.
f=300mm M.O.D.49cm (Max.Mag.Ratio 1:2.9)
Open aperture Auto ISO100

Introducing the World's Number One Lens!

The world's smallest, world's lightest 28-300mm lens.

With the New 28-300mm XR, Tamron gets you as close as 49cm (19.3") at every zoom setting.

The high power zoom provides a Max. Mag. Ratio of 1:2.9.

Advanced optical designs include XR, LD, AD and ASL glass.

The newest achievement in Tamron engineering.

AF28-300mm Ultra Zoom XR

F/3.5-6.3 LD Aspherical (IF) MACRO

A minimum object distance of 49cm at any zoom setting, with Max. Mag. Ratio of 1:2.9.

While conventional high power zoom lenses were limited to a maximum magnification ratio of about 1:4 (roughly the size of a postcard), the new 28-300mm XR (Model A06) achieves an unprecedented 1:2.9, making this a macro lens in the truest sense. With a minimum object distance of 49cm (19.3") even at the 300mm telephoto setting, the A06 can faithfully capture an area about the size of an audio cassette tape: 6.9x10.4cm.

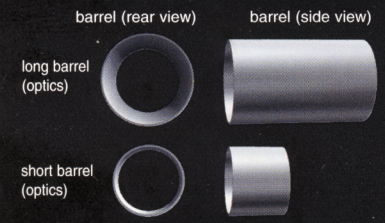
Model 185D (1:3.7)

Model A06 (1:2.9)

XR Technology

The new 28-300mm (Model A06) reduces the overall length of the optical configuration through XR (Extra Refractive Index) technology, providing optics that allow for a smaller lens diameter while maintaining the same aperture values as our previous 28-300 lens for a radical increase in compactness. The Model A06 optical configuration incorporates innovative new XR glass elements, improving the overall optical power distribution, reducing all types of aberrations while making for an unprecedented compact package.

Achieving the same aperture value with a smaller size



With a short barrel, it is possible to obtain the same visibility (aperture value) as with a long barrel. By using this principle, we were able to shorten the optic system length for a more compact overall lens design while maintaining aperture values.

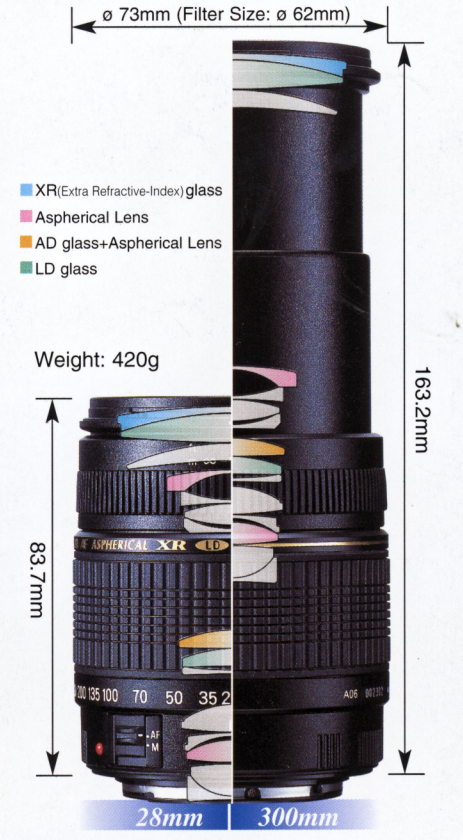
SPECIFICATIONS

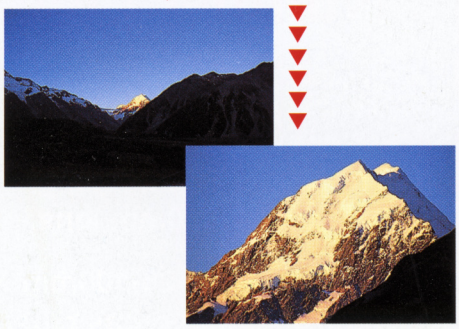
Model Name:	A06
Focal Length:	28-300mm
Angle of View:	75°-8°
Maximum Aperture:	F/3.5-6.3
Optical Construction:	15 elements/13 groups
Minimum Object Distance:	0.49m (19.3")
Max.Mag.Ratio:	1:2.9 (at f=300mm,M.O.D.49cm)
Diaphragm:	9 blades
Length:	83.7mm (3.3")* (at maximum extension: 163.2mm (6.4"))
Diameter:	ø 73mm (2.9")*
Weight:	420g (14.8 oz)*
Filter Size:	ø 62mm
Lens Hood:	Flower-shaped hood

*Values given are for the Nikon AF.
For Canon AF, Minolta AF-D, Nikon AF-D & Pentax AF Cameras.

The world's smallest 28-300mm lens

The new 28-300mm XR (Model A06) zoom achieves a remarkable 25% reduction in size, and 28% reduction in weight compared with the previous 28-300mm (Model 185D)–making the A06 the smallest, lightest 28-300 zoom in existence today. To achieve such a compact, lightweight lens design, Tamron further improved upon the Moving Triple Cam technology introduced in the 28-200 XR (Model A03), achieving a solid, stable two-step extension action mechanism to attain the 300mm zoom setting.

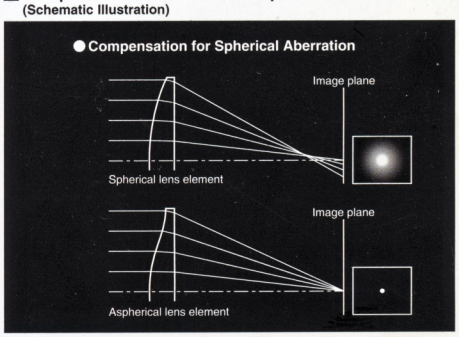


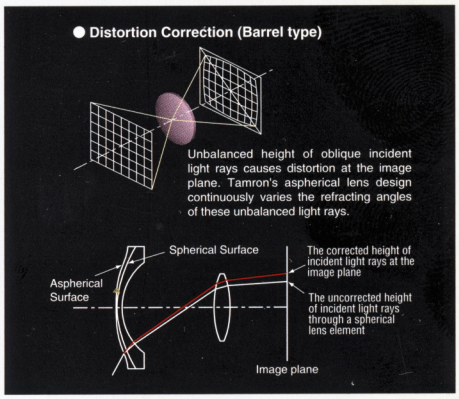


Advanced optical designs include XR, LD, AD and ASL glass.

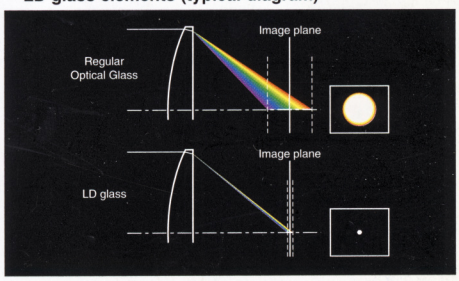
XR (Extra Refractive Index) glass is effective in reducing the optical length of the lens through high refractivity. LD (Low Dispersion) and AD (Anomalous Dispersion) glass minimize loss of sharpness caused by color blurring at the tele end of the focal range, while ensuring vivid, quality imaging. The ASL lens technology compensates for spherical aberration to achieve outstanding image quality. At the same time, reducing the number of elements results in a more compact, lightweight lens package. The new 28-300mm XR (Model A06) comes standard with these special glass elements, achieving a minimum object distance of 49cm (19.3") across the zoom range of 28-300mm. With a maximum magnification ratio of 1:2.9, these unprecedented specifications make this a world-class compact and lightweight lens.

Compensation effect with an aspherical lens element
(Schematic Illustration)




● Distortion Correction (Barrel type)
Unbalanced height of oblique incident light rays causes distortion at the image plane. Tamron's aspherical lens design continuously varies the refracting angles of these unbalanced light rays.
Spherical Surface
Aspherical Surface
The corrected height of incident light rays at the image plane
The uncorrected height of incident light rays through a spherical lens element
Image plane

The difference in chromatic aberration (dispersion characteristics) between normal optical glass and LD glass elements (typical diagram)



Caution: Please read the instruction manual carefully before using the lens.

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ISO 9001 ISO 14001 Head Office

ISO 9001 Certified
Tamron operates a quality management system that has been certified as conforming to ISO 9001.

ISO 14001 Certified
Tamron operates an environmental management system that has been certified as conforming to ISO14001.

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